

## II. CLAIM AMENDMENTS

1. (Previously Presented) A method for conveying information over a wireless interface in the form of a digitally encoded message, said message comprising :

[-] providing a set of bits as a first piece of information to be transmitted,

[-] applying a certain baseband signal processing method to process the bits to be transmitted,

[-] providing a second piece of information to be transmitted, said second piece of information indicating capabilities of a transmitter for said first and second pieces of information, and

[-] selecting the baseband signal processing method from a set of allowed baseband signal processing methods in accordance with the provided second piece of information.

2. (Previously Presented) A transmitting device for transmitting information over a wireless interface in the form of a digitally encoded message, said device comprising:

[-] means for providing a set of bits as a first piece of information to be transmitted,

[-] means for applying a certain baseband signal processing method to process the bits to be transmitted,

[-] means for providing a second piece of information to be transmitted, said second piece of information indicating capabilities of a transmitter for said first and second pieces of information, and

[-] means for selecting the baseband signal processing method from a set of allowed baseband signal processing methods in accordance with the provided second piece of information.

3. (Previously Presented) A receiving device for receiving information over a wireless interface in the form of a digitally encoded message, said device comprising:

[-] means for receiving a set of bits as the representative of a first piece of received information,

[-] means for applying a certain baseband signal processing method to process the set of bits,

[-] means for selecting the baseband signal processing method from a set of allowed baseband signal processing methods so that applying it produces a first piece of received information which satisfies a certain criterion of acceptance, and

[-] means for providing a second piece of received information in the form of the identified baseband signal processing method, said second piece of information indicating capabilities of a transmitter for said first and second pieces of information.

4. (Currently Amended) A ~~transmission~~ communication system comprising:

[-] a transmitting device and a receiving device,

[-] the transmitting device including means for providing a set of bits as a first piece of information to be transmitted and means for applying a certain baseband signal processing method to process the bits to be transmitted,

[-] the transmitting device further including means for providing a second piece of information to be transmitted, said second piece of information indicating capabilities of a transmitter for said first and second pieces of information, and means for selecting the baseband signal processing method from a set of allowed baseband signal processing methods in accordance with the provided second piece of information,

[-] the receiving device including means for receiving a set of bits as the representative of a first piece of received

information and means for applying a certain baseband signal processing method to process the set of bits, and

[-] the receiving device further including means for selecting the baseband signal processing method from a set of allowed baseband signal processing methods so that applying it produces a first piece of received information which satisfies a certain criterion of acceptance and means for providing a second piece of received information in the form of the identified baseband signal processing method.

5. (Previously Presented) The method of claim 1, wherein said selection comprises selecting the baseband signal processing method from between alternative scrambling functions, between alternative convolutional codes or between alternative parity bit calculation methods in accordance with the provided second piece of information.

6. (Previously Presented) The transmitting device of claim 2, wherein said selecting means includes means for selecting the baseband signal processing method from between alternative scrambling functions, between alternative convolutional codes or between alternative parity bit calculation methods in accordance with the provided second piece of information.

7. (Previously Presented) The receiving device of claim 3, wherein said selecting means includes means for selecting the baseband signal processing method from between alternative scrambling functions, between alternative convolutional codes or between alternative parity bit calculation methods in accordance with the provided second piece of information.

8. (Currently Amended) The ~~transmission~~ communication system of claim 4, wherein said selecting means includes means for selecting the baseband signal processing method from between alternative scrambling functions, between alternative convolutional codes or between alternative parity bit calculation methods in accordance with the provided second piece of information.